

**AMENDMENTS TO THE SPECIFICATION**

[0012] In the case of a method according to the invention for the operation of the aforementioned circuit arrangement having ~~the features of claim 6~~ several inductively operating sensors, switching means, control means for the sensor and evaluating means for signals which are generated by the sensors as a response to the control means, and in which the control means and evaluating means are each respectively electrically connected by the switching means to one of the sensors, with the switching means being a MOSFET with a low drain-source resistance, the gate control voltage at the MOSFET can be readjusted. It is therefore possible to produce a frequency which is constant over varying temperatures. It is consequently possible to prevent varying ambient temperatures, for example also through the operation of heating devices of a cooking zone.